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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------------------------------|----------------------|----------------------------|------------------|
| 10/677,983 | 10/02/2003 | Robin A. Felder | FELDER 3.9-001 CONT DIV | 9056 |
| 530 LERNER, DA | 7590 07/03/2007 VID, LITTENBERG, | | EXAMINER | |
| KRUMHOLZ & MENTLIK | | | FAUK, ANNE MARIE | |
| 600 SOUTH AVENUE WEST WESTFIELD, NJ 07090 | | | ART UNIT | PAPER NUMBER |
| | | | 1632 | |
| | | | MAIL DATE | DELIVERY MODE |
| | | | 07/03/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | | | | |
|--|---|--|--|--|--|--|--|
| | 10/677,983 | FELDER ET AL. | | | | | |
| Office Action Summary | Examiner | Art Unit | | | | | |
| · | Anne-Marie Falk, Ph.D. | 1632 | | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | correspondence address | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE | N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133) | | | | | |
| Status | • | • | | | | | |
| 1) Responsive to communication(s) filed on 02 Ap | oril 2007. | | | | | | |
| _ | | | | | | | |
| .3) Since this application is in condition for allowar | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Disposition of Claims | • | | | | | | |
| 4)⊠ Claim(s) <u>1-3,9-21,25,26 and 28-46</u> is/are pending in the application. | | | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | | |
| 6) Claim(s) is/are rejected. | 6) Claim(s) is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) <u>1-3,9-21,25,26 and 28-46</u> are subject | to restriction and/or election requ | uirement. | | | | | |
| Application Papers | • | | | | | | |
| 9) The specification is objected to by the Examine | r | | | | | | |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. | | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | | | |
| | | | | | | | |
| 2. Certified copies of the priority documents | | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | | | |
| application from the International Bureau (PCT Rule 17.2(a)). | | | | | | | |
| * See the attached detailed Office action for a list | of the certified copies not receive | ed. | | | | | |
| | | | | | | | |
| | | , | | | | | |
| Attachment(s) | | | | | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) | | | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) | | Paper No(s)/Mail Date 5) Notice of Informal Patent Application | | | | | |
| Paper No(s)/Mail Date 6) Other: | | | | | | | |

DETAILED ACTION

The preliminary amendment filed on April 2, 2007 has been entered. Claims 4-8, 22-24, and 27 have been canceled and Claims 39-46 have been newly added.

Accordingly, Claims 1-3, 9-21, 25, 26, and 28-46 are pending in the instant application.

Applicants' election with traverse of Group III, Claims 9-13 in the response filed January 8, 2007 is acknowledged. The elected invention is drawn to a reconstituted system for assaying GRK activity and a method for identifying putative anti-hypertensive agents by detecting GRK4 activity.

Claims 1-3, 14-21, 25, 26, and 28-38 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on January 8, 2007.

Newly added claims 39-46 are directed to the elected invention and recite a plurality of GRK4. species. Accordingly, the elected invention is subject to the election of species requirement set forth below.

Election/Restriction

Election of Species

Applicant is required to elect one of the species listed below.

This application contains claims directed to the following patentably distinct species of the claimed invention, covering the following prion polymorphisms, as set forth in Claims 39-44:

- A. GRK4 containing R65L
- B. GRK4 containing A142V
- C. GRK4 containing A486V.

Art Unit: 1632

D. GRK4 containing R65L, A486V

- E. GRK4 containing R65L, A142V
- F. GRK4 containing R65L, A142V, A486V

The various GRK4 polymorphisms and mutations are structurally and biologically distinct.

Furthermore, the variant GRK4 polypeptides differ functionally from each other. The variant GRK4 polypeptides (polymorphisms and mutant forms) are not so related as to be considered obvious variants. Furthermore, there is nothing on the record to suggest that the different GRK4 polypeptides are obvious variants such that a reconstituted system comprising one GRK4 variant would render obvious a reconstituted system comprising the other GRK4 variants.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Currently, Claim 9 is generic.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species associated with the elected invention, even though this requirement is traversed.

Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Application/Control Number: 10/677,983

Art Unit: 1632

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPŤO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Art Unit: 1632

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne-Marie Falk whose telephone number is (571) 272-0728. The examiner can normally be reached Monday through Friday from 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras, can be reached on (571) 272-4517. The central official fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Anne-Marie Falk, Ph.D.

/Anne-Marie Falk/ Primary Examiner, Art Unit 1632